

Art Unit 2652
Serial No. 10/062,837

PATENT
Attorney Docket No.: K35A1043

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A disk drive comprising:

- (a) a disk;
- (b) a head actuated radially over the disk; and
- (c) a spindle motor for rotating the disk, the spindle motor comprising:
 - a stator comprising at least one stator coil wrapped around a stator tooth;
 - a hub rotated by the stator when current is applied to the stator coil;
 - and
 - a locking spring arm having a fixed base, wherein:
 - the locking spring arm engages the hub when no current is applied to the stator coil; and
 - the locking spring arm disengages from the hub when current applied to the stator coil generates a magnetic flux which pulls the locking spring arm away from the hub.

Claim 2 (original): The disk drive as recited in claim 1, wherein the locking spring arm comprises a magnetic material for interacting with the magnetic flux.

Claim 3 (original): The disk drive as recited in claim 1, wherein the locking spring arm comprises a rubber material for engaging the hub.

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Claim 4 (original): The disk drive as recited in claim 1, wherein the locking spring arm comprises a spring material for biasing the locking spring arm toward the hub.

Claim 5 (canceled)

Claim 6 (original): The disk drive as recited in claim 1, wherein the locking spring arm comprises a substantially arcuate shape corresponding to an arcuate shape of the spindle motor.

Claim 7 (original): The disk drive as recited in claim 1, wherein the locking spring arm comprises a substantially circular shape corresponding to a circular shape of the spindle motor.

Claim 8 (original): A spindle motor for use in rotating a disk in a disk drive, the spindle motor comprising:

- (a) a stator comprising at least one stator coil wrapped around a stator tooth;
- (b) a hub rotated by the stator when current is applied to the stator coil; and
- (c) a locking spring arm having a fixed base, wherein:

the locking spring arm engages the hub when no current is applied to the stator coil; and

the locking spring arm disengages from the hub when current applied to the stator coil generates a magnetic flux which pulls the locking spring arm away from the hub.

Claim 9 (original): The spindle motor as recited in claim 8, wherein the locking spring arm comprises a magnetic material for interacting with the magnetic flux.

Claim 10 (original): The spindle motor as recited in claim 8, wherein the locking spring arm comprises a rubber material for engaging the hub.

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Claim 11 (original): The spindle motor as recited in claim 8, wherein the locking spring arm comprises a spring material for biasing the locking spring arm toward the hub.

Claim 12 (canceled)

Claim 13 (original): The spindle motor as recited in claim 8, wherein the locking spring arm comprises a substantially arcuate shape corresponding to an arcuate shape of the spindle motor.

Claim 14 (original): The spindle motor as recited in claim 8, wherein the locking spring arm comprises a substantially circular shape corresponding to a circular shape of the spindle motor.